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A1  
Cnd.  
being structured and configured as a master device, [and] said master device structured and configured to manage data transmission between said master device and said at least two other transceivers and data transmission between said at least two other transceivers.

A2  
4. (Amended) The wireless communication network system as recited in claim 1, further comprising a frame definition having a master slot, a command slot, and a plurality of data slots, said master slot having a master sync code, [said] a protocol operating in slotted aloha mode and time division multiple access mode, said master device managing said protocol and said data slots in said protocol.

A3  
10. (Amended) A wireless communication network system, comprising:  
(a) at least three transceivers, one of which is structured and configured as a master device to manage data transmission between said master device and said at least two other transceivers and data transmission between said at least two other transceivers;  
(b) a transmitter in each said transceiver; and  
(c) a receiver in each said transceiver.

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16. (Amended) A method for providing wireless network communication, comprising the steps of:  
(a) providing a master transceiver;  
(b) providing a plurality of slave transceivers in communication with said master transceiver;  
(c) synchronizing said slave transceivers with said master transceiver;  
(d) providing a Medium Access Control protocol which is executed in said master transceiver and in said slave transceivers, said protocol including a Time Division Multiple Access frame definition having a master slot, a command slot, a plurality of variable length data slots;  
(e) requesting a data slot from said master transceiver by a source slave transceiver;

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(f) assigning to said source slave transceiver an assigned data slot by said master transceiver; and

(g) after said assigning step, transferring data in said assigned data slot, by said source slave transceiver, to a target slave transceiver, said data transferring carried out without intervention from said master transceiver.

Please add the following new claims:

--17. (New) A wireless communication network system comprising at least three transceivers, each said transceiver having a transmitter and a receiver, one of said transceivers being structured and configured as a master device, and master device structured and configured to manage data transmission between said transceivers, wherein each said transceiver further comprises a framing controller, said framing controller having means for generating and maintaining time frame information for said network system.

18. (New) The system of claim 17, wherein said transceivers operate according to a Medium Access Control protocol having a time division multiple access frame definition, said protocol structured and configured to operate in aloha mode and time division multiple access mode.

19. (New) The system of claim 18, further comprising a frame definition having a master slot, a command slot, and a plurality of data slots, said master having a master sync code, a protocol operating in slotted aloha mode and time division multiple access mode, said master device managing said protocol and said data slots in said protocol.

20. (New) The system of claim 19, further comprising a Medium Access Control hardware interface comprising a multiplexer/demultiplexer unit and a plurality of slot allocation units, said multiplexer/demultiplexer unit operatively coupled to said plurality of slot allocation units.

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21. (New) The system of claim 20, wherein said transmitters are structured and configured to emit radio frequency pulses operating with baseband wireless technology and said receivers are structured and configured to receive radio frequency pulses.

22. (New) The system of claim 21, wherein said transceivers are structured and configured to transfer data to other said transceivers isochronously.

23. (New) The system of claim 22, wherein each said slave transceiver further comprises a local clock therein, said master transceiver further comprising a master clock therein, each said local clock synchronized with said master clock.

24. (New) The system of claim 17, wherein said transmitters are structured and configured to emit radio frequency pulses operating with ultra-wide band wireless technology and said receivers are structured and configured to receive radio frequency pulses.

25. (New) The system of claim 24, wherein said transceivers are structured and configured to transfer data to other said transceivers isochronously.

26. (New) The system of claim 25, wherein each said slave transceiver further comprises a local clock therein, said master transceiver further comprising a master clock therein, each said local clock synchronized with said master clock.

27. (New) The system of claim 17, further comprising a frame definition having a master slot, a command slot, and a plurality of data slots, said master having a master sync code, a protocol operating in slotted aloha mode and time division multiple access mode, said master device managing said protocol and said data slots in said protocol.

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28. (New) The system of claim 27, further comprising a Medium Access Control hardware interface comprising a multiplexer/demultiplexer unit and a plurality of slot allocation units, said multiplexer/demultiplexer unit operatively coupled to said plurality of slot allocation units.
29. (New) The system of claim 28, wherein said transmitters are structured and configured to emit radio frequency pulses operating with baseband wireless technology and said receivers are structured and configured to receive radio frequency pulses.
30. (New) The system of claim 29, wherein said transceivers are structured and configured to transfer data to other said transceivers isochronously.
31. (New) The system of claim 30, wherein each said slave transceiver further comprises a local clock therein, said master transceiver further comprising a master clock therein, each said local clock synchronized with said master clock.
32. (New) The system of claim 18, wherein said transmitters are structured and configured to emit radio frequency pulses operating with ultra-wide band wireless technology and said receivers are structured and configured to receive radio frequency pulses.
33. (New) The system of claim 32, wherein said transceivers are structured and configured to transfer data to other said transceivers isochronously.
34. (New) The system of claim 33, wherein each said slave transceiver further comprises a local clock therein, said master transceiver further comprising a master clock therein, each said local clock synchronized with said master clock.

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35. (New) The system of claim 17, further comprising a Medium Access Control hardware interface comprising a multiplexer/demultiplexer unit and a plurality of slot allocation units, said multiplexer/demultiplexer unit operatively coupled to said plurality of slot allocation units.
36. (New) The system of claim 35, wherein said transmitters are structured and configured to emit radio frequency pulses operating with baseband wireless technology and said receivers are structured and configured to receive radio frequency pulses.
37. (New) The system of claim 36, wherein said transceivers are structured and configured to transfer data to other said transceivers isochronously.
38. (New) The system of claim 37, wherein each said slave transceiver further comprises a local clock therein, said master transceiver further comprising a master clock therein, each said local clock synchronized with said master clock.
39. (New) The system of claim 35, wherein said transmitters are structured and configured to emit radio frequency pulses operating with ultra-wide band wireless technology and said receivers are structured and configured to receive radio frequency pulses.
40. (New) The system of claim 39, wherein said transceivers are structured and configured to transfer data to other said transceivers isochronously.
41. (New) The system of claim 40, wherein each said slave transceiver further comprises a local clock therein, said master transceiver further comprising a master clock therein, each said local clock synchronized with said master clock.

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42. (New) The system of claim 17, wherein said transmitters are structured and configured to emit radio frequency pulses operating with baseband wireless technology and said receivers are structured and configured to receive radio frequency pulses.

43. (New) The system of claim 42, wherein said transceivers are structured and configured to transfer data to other said transceivers isochronously.

44. (New) The system of claim 43, wherein each said slave transceiver further comprises a local clock therein, said master transceiver further comprising a master clock therein, each said local clock synchronized with said master clock.

45. (New) The system of claim 17, wherein said transmitters are structured and configured to emit radio frequency pulses operating with ultra-wide band wireless technology and said receivers are structured and configured to receive radio frequency pulses.

46. (New) The system of claim 45, wherein said transceivers are structured and configured to transfer data to other said transceivers isochronously.

47. (New) The system of claim 46, wherein each said slave transceiver further comprises a local clock therein, said master transceiver further comprising a master clock therein, each said local clock synchronized with said master clock.

48. (New) The system of claim 17, wherein said transceivers are structured and configured to transfer data to other said transceivers isochronously.

49. (New) The system of claim 48, wherein each said slave transceiver further comprises a local clock therein, said master transceiver further comprising a master clock therein, each said local clock synchronized with said master clock.

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50. (New) The system of claim 17, wherein each said slave transceiver further comprises a local clock therein, said master transceiver further comprising a master clock therein, each said local clock synchronized with said master clock.

51. (New) A wireless communication network system comprising at least three transceivers, each said transceiver having a transmitter and a receiver, one of said transceivers being structured and configured as a master device, and master device structured and configured to manage data transmission between said transceivers, and a Medium Access Control hardware interface comprising a multiplexer/demultiplexer unit and a plurality of slot allocation units, said multiplexer/demultiplexer unit operatively coupled to said plurality of slot allocation units.

52. (New) The system of claim 51, wherein said transceivers operate according to a Medium Access Control protocol having a time division multiple access frame definition, said protocol structured and configured to operate in aloha mode and time division multiple access mode.

53. (New) The system of claim 52, further comprising a frame definition having a master slot, a command slot, and a plurality of data slots, said master having a master sync code, a protocol operating in slotted aloha mode and time division multiple access mode, said master device managing said protocol and said data slots in said protocol.

54. (New) The system of claim 53, wherein said transmitters are structured and configured to emit radio frequency pulses operating with baseband wireless technology and said receivers are structured and configured to receive radio frequency pulses.

55. (New) The system of claim 54, wherein said transceivers are structured and configured to transfer data to other said transceivers isochronously.

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56. (New) The system of claim 55, wherein each said slave transceiver further comprises a local clock therein, said master transceiver further comprising a master clock therein, each said local clock synchronized with said master clock.

57. (New) The system of claim 53, wherein said transmitters are structured and configured to emit radio frequency pulses operating with ultra-wide band wireless technology and said receivers are structured and configured to receive radio frequency pulses.

58. (New) The system of claim 57, wherein said transceivers are structured and configured to transfer data to other said transceivers isochronously.

59. (New) The system of claim 58, wherein each said slave transceiver further comprises a local clock therein, said master transceiver further comprising a master clock therein, each said local clock synchronized with said master clock.

60. (New) The system of claim 51, further comprising a frame definition having a master slot, a command slot, and a plurality of data slots, said master having a master sync code, a protocol operating in slotted aloha mode and time division multiple access mode, said master device managing said protocol and said data slots in said protocol.

61. (New) The system of claim 60, wherein said transmitters are structured and configured to emit radio frequency pulses operating with baseband wireless technology and said receivers are structured and configured to receive radio frequency pulses.

62. (New) The system of claim 61, wherein said transceivers are structured and configured to transfer data to other said transceivers isochronously.



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63. (New) The system of claim 62, wherein each said slave transceiver further comprises a local clock therein, said master transceiver further comprising a master clock therein, each said local clock synchronized with said master clock.

64. (New) The system of claim 60, wherein said transmitters are structured and configured to emit radio frequency pulses operating with ultra-wide band wireless technology and said receivers are structured and configured to receive radio frequency pulses.

65. (New) The system of claim 64, wherein said transceivers are structured and configured to transfer data to other said transceivers isochronously.

66. (New) The system of claim 65, wherein each said slave transceiver further comprises a local clock therein, said master transceiver further comprising a master clock therein, each said local clock synchronized with said master clock.

67. (New) The system of claim 51, wherein said transmitters are structured and configured to emit radio frequency pulses operating with baseband wireless technology and said receivers are structured and configured to receive radio frequency pulses.

68. (New) The system of claim 67, wherein said transceivers are structured and configured to transfer data to other said transceivers isochronously.

69. (New) The system of claim 68, wherein each said slave transceiver further comprises a local clock therein, said master transceiver further comprising a master clock therein, each said local clock synchronized with said master clock.

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70. (New) The system of claim 51, wherein said transmitters are structured and configured to emit radio frequency pulses operating with ultra-wide band wireless technology and said receivers are structured and configured to receive radio frequency pulses.

71. (New) The system of claim 70, wherein said transceivers are structured and configured to transfer data to other said transceivers isochronously.

72. (New) The system of claim 71, wherein each said slave transceiver further comprises a local clock therein, said master transceiver further comprising a master clock therein, each said local clock synchronized with said master clock.

73. (New) The system of claim 51, wherein said transceivers are structured and configured to transfer data to other said transceivers isochronously.

74. (New) The system of claim 73, wherein each said slave transceiver further comprises a local clock therein, said master transceiver further comprising a master clock therein, each said local clock synchronized with said master clock.

75. (New) The system of claim 51, wherein each said slave transceiver further comprises a local clock therein, said master transceiver further comprising a master clock therein, each said local clock synchronized with said master clock.

76. (New) A wireless communication network system comprising at least three transceivers, each said transceiver having a transmitter and a receiver, one of said transceivers being structured and configured as a master device, and master device structured and configured to manage data transmission between said transceivers, wherein each said slave transceiver further comprises a local clock therein, said master transceiver further comprising a master clock therein, each said local clock synchronized with said master clock.

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77. (New) The system of claim 76, wherein said transceivers operate according to a Medium Access Control protocol having a time division multiple access frame definition, said protocol structured and configured to operate in aloha mode and time division multiple access mode.

78. (New) The system of claim 77, further comprising a frame definition having a master slot, a command slot, and a plurality of data slots, said master having a master sync code, a protocol operating in slotted aloha mode and time division multiple access mode, said master device managing said protocol and said data slots in said protocol.

79. (New) The system of claim 78, wherein said transmitters are structured and configured to emit radio frequency pulses operating with baseband wireless technology and said receivers are structured and configured to receive radio frequency pulses.

80. (New) The system of claim 79, wherein said transceivers are structured and configured to transfer data to other said transceivers isochronously.

81. (New) The system of claim 78, wherein said transmitters are structured and configured to emit radio frequency pulses operating with ultra-wide band wireless technology and said receivers are structured and configured to receive radio frequency pulses.

82. (New) The system of claim 81, wherein said transceivers are structured and configured to transfer data to other said transceivers isochronously.

83. (New) The system of claim 76, further comprising a frame definition having a master slot, a command slot, and a plurality of data slots, said master having a master sync code, a protocol operating in slotted aloha mode and time division multiple access mode, said master device managing said protocol and said data slots in said protocol.

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84. (New) The system of claim 83, wherein said transmitters are structured and configured to emit radio frequency pulses operating with baseband wireless technology and said receivers are structured and configured to receive radio frequency pulses.

85. (New) The system of claim 84, wherein said transceivers are structured and configured to transfer data to other said transceivers isochronously.

86. (New) The system of claim 83, wherein said transmitters are structured and configured to emit radio frequency pulses operating with ultra-wide band wireless technology and said receivers are structured and configured to receive radio frequency pulses.

87. (New) The system of claim 86, wherein said transceivers are structured and configured to transfer data to other said transceivers isochronously.

88. (New) The system of claim 73, wherein said transmitters are structured and configured to emit radio frequency pulses operating with baseband wireless technology and said receivers are structured and configured to receive radio frequency pulses.

89. (New) The system of claim 88, wherein said transceivers are structured and configured to transfer data to other said transceivers isochronously.

90. (New) The system of claim 76, wherein said transmitters are structured and configured to emit radio frequency pulses operating with ultra-wide band wireless technology and said receivers are structured and configured to receive radio frequency pulses.

91. (New) The system of claim 90, wherein said transceivers are structured and configured to transfer data to other said transceivers isochronously.

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92. (New) The system of claim 76, wherein said transceivers are structured and configured to transfer data to other said transceivers isochronously.

93. (New) A wireless communication network system, comprising:

at least three transceivers, one of which is structured and configured as a master device to manage data transmission between said transceivers;

a transmitter in each said transceiver;

a receiver in each said transceiver; and

a Medium Access Control unit including a Physical layer interface, a multiplexer/demultiplexer unit operatively coupled to said Physical layer interface, a plurality of slot allocation units operatively coupled to said multiplexer/demultiplexer, an interface to higher level protocols operatively coupled to said plurality of slot allocation units.

94. (New) The system of claim 93, wherein said master device includes a time division multiple access frame definition and a framing control function to frame data transmission between said transceivers.

95. (New) The system of claim 94, wherein said transceivers operate according to a time division multiple access frame definition to synchronize said network system.

96. (New) The system of claim 95, wherein each said transceiver further comprises:

(a) a data modulator; and

(b) a data demodulator.

97. (New) The system of claim 96, further comprising a time division multiple access frame structure having a master slot, a command slot, and a plurality of data slots.